

DELHI PUBLIC SCHOOL, JAMMU
ASSIGNMENT-I

Exam: Periodic Test-II

Class-XI

Subject: Computer Science

Topic: Data Representation, General OOP Concepts, Getting Started with C++, Data Handling, Operators & Expressions in C++, C++ as per Latest C++ 11 Standard, Flow of Control, Functions

1. What are literals in C++? How many types of literals are allowed in C++?
2. What do you understand by 'code generation'?
3. Write a C++ program that accepts a character between a to j and prints next 4 characters.
4. What is the difference between 25L and 25?
5. Convert:
 - i) 200_{10} to binary.
 - ii) 1101.000101_2 to decimal.
 - iii) 0.015625_{10} to octal.
 - iv) 10101110.010111_2 to hexadecimal
 - v) $3BF.5C_{16}$ to binary.
6. Which of the following two statements are valid? Why? Also write their results.
int x;
 - i) $x = 1,024;$ ii) $x = (1,02);$
7. What do you mean by Abstraction and Encapsulation? How are these two terms interrelated?
8. Write two major differences between Object Oriented Programming and Procedural Programming.
9. Write two advantages of using include compiler directive.
10. Why main function special? Give two reasons.
11. Differentiate between a Run Time Error and Syntax Error. Also give suitable examples of each in C++.
12. What are data types? What are all predefined data types in C++?
13. What is a variable? How many values are associated with it?
14. Identify the errors in the following code segment:

```
:
int main( )    {    cout<<"Enter two numbers";
                cin>>num>>auto;
                float area= length * breadth;
            }
```

15. Evaluate $x = ++y + 2y$ if $y = 6$.
16. Differentiate between the post-increment and pre-increment operators. Also, give a suitable C++ code to illustrate both.
